

SUBJECT INDEX

Vol. 140C, Nos. 1-4

- ABTS, 47
 Acclimation, 29, 39
 Acetazolamide, 139
Achatina fulica, 422
 Acute phase proteins, 87
 Adenosyl methionine, 151
 Adrenocortical cells, 374
 Aflatoxin B1, 207
 Age effects, 11
 Allometry, 364
 Amino acid, 395
Anguilla anguilla, 97
 Anti-androgen, 330
 Anticomplementary activity, 257
 Antioxidant capacity, 47
 Antioxidant defense system, 197
 Antioxidant enzymes, 175, 187, 197
 Antioxidants, 165, 221, 422
 Aspartate aminotransferase, 69, 97
 ATP, 103

 Baculovirus, 207
 Baltic Sea, 408
 Beetle larvae, 227
 Bioenergetics, 364
 Biological monitoring, 356
 Biomarker, 383, 408
 Biomarkers, 356
 Bivalve, 408
 Blood chemistry, 97
 Blood glucose, 356
 Brain, 47
Bufo arenarum, 21

 Cadmium, 29, 39, 115, 175, 364, 422
 Cadmium (Cd), 383
 Cadmium uptake, 374
 Calcium, 374
 Cambé stream, 356
Carassius auratus, 115
 Carbon dioxide, 139
 Carbon disulfide, 139
 Carbonic anhydrase, 139
 Carbonyl sulfide, 139
 Catalase, 59, 321
 cDNA, 347
 cDNA cloning, 300
 Chagas disease, 151
 Chemical, 265
 Chronic stress, 29
³⁶Cl⁻, 21
 Cl⁻, 29
 Clam, 408
 Cloning, 347

 Clotrimazole, 403
 Colorado potato beetle, 227
 Common carp, 287
 Copper, 175
Corbicula fluminea, 300
 Cowpea weevil, 227
Crassostrea gigas, 69
 Crustacean, 383
 Cyanobacterial toxin, 11
 CYP2K6, 207
 CYP3A, 87, 403
 Cyprinidae, 347
 Cysteine proteinase inhibitors, 227
 Cytochrome c oxidase, 29
 Cytochrome P4503A, 403

Danio rerio, 207
Daphnia, 175
 Daphnia, 364
 Degenerated primers, 300
 Detoxification, 309
 Diabetes, 251
 Dietary compensation, 53
 Dietary waterborne copper, 131
 Digestive gland, 321, 422
 Dissolved oxygen, 321
 DNA damage, 11
 Drug resistance, 395

 Ecotoxicology, 408
 Electron paramagnetic resonance, 115
 ELISA, 295
 Embryogenesis, 103
 Endocrine disruption, 330
 Endocrine disruptor, 374
 Endosulfan, 175
 Environmental effects monitoring, 237
 Epithelial anion permeability, 21
Eriocheir sinensis, 29, 39
 Erythrocytes, 59
 Estivation, 165
 Estradiol-17 β 2,2',4',5',5'-hexachlorobiphenyl
 (PCB 153), 295
 Estrogen, 330
 Estrogen receptor, 123
 Estrogen receptor mRNA, 340
 European eel, 97
 EVEX, 97
 Exercise, 59
 Expression, 69
 Expression pattern, 300

 Fatty acids, 187
 Fish, 340, 356
 Flounder, 87

 Food limitation, 364
 FRAP, 47
 Free radicals, 221
 Frog aging, 197
 Frog liver, 197
 Fumigation, 139

 Gastropod, 422
 Gender, 47
 Gene duplication, 347
 Gene evolution, 347
 Gene expression, 87
 Genomic sequence, 69
 Gill, 123
 Gill ultrastructure, 29
 Gills, 39, 321
 Glibenclamide, 395
 Glucose, 395
 Glucose uptake, 395
 Glutathione, 165, 309
 Glutathione peroxidase, 321
 Glutathione S-transferase, 309
Gobio gobio, 347
 Gonopodium, 330
 Growth, 131

 Heart, 47
 Heavy metals, 422
 Hemolymph osmolality, 29
 Hepatic estrogen binding capacity, 340
 Hepatopancreas, 39, 309
 Hepatosomatic index, 356
 Hepatotoxin, 11
 Hybrid striped bass, 131
 Hydrocarbons, 69
 Hydroperoxide, 187
 Hydroxyl radical, 115
 Hypobaric-hypoxia, 59
 Hypoxia, 69, 103

¹³¹I⁻, 21
 Immunogenicity of snake venom, 257
 Innate immunity, 287
 Insect, 139
 Insect digestion, 53
 Insect digestive enzymes, 227
 Insecticides, 227
 Invertebrate, 383
 Isoprostane, 187

 Japanese medaka, 103

 Kidney, 47, 422

Subject Index

- Lactate dehydrogenase, 97
Lagoon, 321
Leishmania, 151, 395
Lethal activity (LD50), 257
Leukemia, 237
Lipid, 187
Lipid peroxidation, 59, 165, 221
Litopenaeus vannamei, 383
Liver, 47, 123
Liver catalase, 356
Liver glutathione-S-transferase, 356
- Macoma balthica*, 408
Marine, 265
MDR, 395, 403
Membrane, 79
Menadione, 175
Metabolic substrate, 395
Metabolism, 103
Metabolites, 265
Metal accumulation, 39, 383
Metal speciation, 374
Metallothionein, 347
Metallothionein (MT), 383
Metallothionein-like proteins, 39
Microcystin-LR, 11
Microcystis aeruginosa, 11
Milrinone, 251
Minimum haemorrhagic dose (MHD), 257
Minimum necrotizing dose (MND), 257
MRP, 395
Multidrug-resistance, 403
Mussel, 237, 408
Mussels, 321
Mytilus, 237
Mytilus edulis, 408
- Na⁺, 29
N-acetylcysteine, 221
Na⁺/K⁺-ATPase, 29
Naphthalene, 115
Natural, 265
Neurotoxins, 221
Nifedipine, 403
NMR, 103
NO, 221
Non-redox cycling, 115
Nonspecific cytotoxic cells, 287
Nonylphenol, 87, 123
- Oral toxicity, 11
Ornithine decarboxylase, 151
Oryzias latipes, 103
Osmoregulation, 29
- Oxidative damage, 115, 197
Oxidative stress, 59, 165, 175, 187, 221, 251, 422
- P450, 87
p53 gene family, 237
Paraquat, 175
Pesticides, 69
P-gp, 395
Pharmacology, 265
Phosphocreatine, 103
Phosphodiesterase inhibitors, 251
Phospholipase A₂, 257
Phylogenetic footprint analysis, 237
Phylogeny, 69, 347
pi-class GST, 300
Pituitary, 79
Plant resistance to insects, 227
Plasma ions, 356
Poeciliidae, 330
Polyamine inhibitors, 151
Pores, 79
Prawn, 383
Pregnane X-receptor, 403
Pregnenolone 16 α -carbonitrile, 403
Products, 265
Prooxidant, 187
Protein oxidation, 59
Proteinase inhibitors, 53
PXR, 87, 403
- Quantitative RT-PCR, 340
Quillaja, 79
- RACE-PCR, 300
Radioimmunoassay (RIA), 295
Rainbow trout, 187, 374
Reactive oxygen species, 115, 197
Rearrangement, 79
Red sea bream, 309
Reproduction, 364
Reverse transcription-polymerase chain reaction, 287
Review, 265
Rockfish, 295
ROS detoxification mechanism, 197
RT-PCR, 300
- Salmon, 123
Saponin, 79
Scope for growth, 364
Scorpion venom, 221
Seasonal variability, 408
Seasonality, 165
Seawater adaptation, 123
- Sebastes schlegeli*, 295
Sediment toxicity test, 356
Sequencing, 347
Short-circuit current, 21
Sildenafil, 251
Simulated migration, 97
Sleeping sickness, 151
Smolting, 123
Snake venom, 257
Soybean, 79
Soybean protease inhibitors, 227
Stress, 364
Superoxide dismutase, 59, 321
- TBARS, 47
^{99m}TcO₄, 21
Teleostean fish, 309
4-*tert*-octylphenol, 340
Testis, 330
Testosterone, 295
Testosterone metabolism, 87
Theophylline, 251
Thermal stability, 309
Tilapia, 79
Tissue accumulation, 131
Toad skin, 21
Total protein, 97
Toxicity, 139
Toxicogenomics, 237
Toxicology, 265
Transepithelial conductance, 21
Tribolium castaneum, 53
Trichomonas, 151
Trypanosoma, 151
- Unidirectional fluxes, 21
Unio tumidus, 300
3' untranslated region, 237
- Vipera ammodytes ammodytes*, 257
Virus, 97
Vitamin E, 187
Vitellogenin, 340
Vitellogenin (VTG), 295
- Western corn rootworm, 227
- Xenobiotics, 309
Xenoestrogen, 123
- Yellow perch, 374
- Zebrafish, 207, 403
Zinc, 422
Zinc (Zn), 383
Zoarces viviparus, 340

AUTHOR INDEX

Vol. 140C, Nos. 1-4

- Abdollahi, M., 251
 Albergoni, V., 321
 Almeida, J.S., 356
 Ando, H., 123
 Andreassen, T.K., 340
 Angus, R.A., 330
 Antonissen, E., 97
 Araki, T., 309
 Aruchami, M., 422
 Arun, S., 175
 Asha Devi, S., 59
 Autier, Y., 221
- Baillieul, M., 364
 Bainy, A.C.D., 403
 Balaña-Fouce, R., 151
 Baldwin, S.A., 237
 Baldwin, W.S., 87
 Ballieux, B., 97
 Ban, M., 123
 Barata, C., 175
 Becker, K., 79
 Bhaskar, A.S.B., 11
 Biellmyer, G.K., 131
 Blust, R., 347, 364
 Boban, M., 47
 Boutet, I., 69
 Bresolin, T., 403
 Bressan, R.A., 227
 Buhler, D.R., 207
- Camacho, N., 395
 Cardoso, L.A., 165
 Carrega, L., 221
 Cassini, A., 321
 Castillo, G., 21
 Chanampa, Y., 21
 Chandran, R., 422
 Chapman, L.M., 87
 Chen, H.-C., 383
 Chung, W.G., 207
 Clot-Faybesse, O., 221
 Coldenhoff, K., 97
 Cox, R.L., 237
- De Coen, W., 347
 De Freitas Rebelo, M., 403
 Devaux, C., 221
 Devos, P., 29, 39
 Dojchinov, G., 139
- Dojnović, B., 257
 Dousset, E., 221
 Doyen, P., 300
 Duchêne, C., 39
- Figarella, K., 395
 Francis, G., 79
- Gatlin, D., 131
 Guieu, R., 221
 Gunimaladevi, I., 287
 Gupta, N., 11
- Habjanec, L., 257
 Haenen, O., 97
 Halassy, B., 257
 Hamann, M.T., 265
 Han, C.-H., 295
 Haritos, V.S., 139
 Hartzler, K., 53
 Hasegawa, P.M., 227
 Hedvat, R., 79
 Hermes-Lima, M., 165
 Hinton, D.E., 103
 Hontela, A., 374
 Hseu, T.H., 207
 Hu, C.H., 207
- Inácio, I., 347
 Irato, P., 321
 Isely, J.J., 131
- Jammes, Y., 221
 Jatav, P.C., 11
 Jayaraj, R., 11
 Jeevaratnam, K., 59
 Jenkins, R.L., 330
 Jeon, J.-K., 295
 Ji, L., 115
 Jouirou, B., 221
 Jumarie, C., 374
 Jung, J.-H., 295
- Kajii, E., 197
 Kanas, T., 79
 Kashiwagi, A., 197
 Kashiwagi, K., 197
 Katalinic, V., 47
 Kato, K., 309
 Kerem, Z., 79
- Khorasani, R., 251
 Kiron, V., 187
 Kitahashi, T., 123
 Klaine, S.J., 131
 Knapen, D., 347
 Konishi, T., 309
 Kono, T., 287
 Korsgaard, B., 340
 Kramer, K.J., 53
 Kumar Bhandari, R., 123
- Lalitha, S., 227
 Lang Balija, M., 257
 Lee, S.J., 207
 Lehtonen, K.K., 408
 Leiniö, S., 408
 Lentjes, E., 97
 Levavi-Sivan, B., 79
 Luo, Q., 123
 Luo, Y., 115
- Martin-Eauclaire, M.F., 221
 Martinez, C.B.R., 356
 Mayer, A.M.S., 265
 McCormick, S.D., 123
 Meistertzheim, A.-L., 69
 Meletti, P.C., 356
 Milani, E., 251
 Miranda, C.L., 207
 Modun, D., 47
 Mohandass, S., 422
 Moraga, D., 69
 Morgan, T.D., 53
 Murdock, L.L., 227
 Music, I., 47
 Muttray, A.F., 237
- Navarro, J.C., 175
 Nielsen, S.S., 227
 Nikfar, S., 251
- Oppert, B., 53
 Orce, G., 21
- Peterson, S., 87
 Piccinni, E., 321
 Pincetich, C.A., 103
 Ponte-Sucre, A., 395
 Porte, C., 175
 Puangkaew, J., 187

Author Index

- Ramos-Vasconcelos, G.R., 165
- Rao, P.V.L., 11
- Raynal, N.J., 374
- Redeker, E.S., 347
- Reguera, R.M., 151
- Reinisch, C.L., 237
- Rodius, F., 300
- Roling, J.A., 87
- Sakai, M., 287
- Sakata, H., 287
- Santovito, G., 321
- Satoh, S., 187
- Sauze, N., 221
- Savan, R., 287
- Shade, R.E., 227
- Shi, H., 115
- Shinkai, T., 197
- Shiraki, K., 309
- Silvestre, F., 29, 39
- Sivakumar, A.A., 422
- Skjoedt, K., 340
- Smolders, R., 364
- Sogabe, R., 287
- Stanko, J., 330
- Steinberg, J.G., 221
- Stevens, J.F., 207
- St-Jean, S., 237
- Subramanyam, M.V.V., 59
- Sui, Y., 115
- Takagi, M., 309
- Tamaru, Y., 309
- Tanguy, A., 69
- Taniguchi, K., 287
- Tassakka, A.C.M.A.R., 287
- Tekwani, B.L., 151
- Thébault, M.-T., 69
- Tjeerdema, R.S., 103
- Tomašić, J., 257
- Tomasso, J., 131
- Trausch, G., 29, 39
- Tseng, H.P., 207
- Urano, A., 123
- Uzcategui, N.L., 395
- Van den Thillart, G., 97
- Van Ginneken, V., 97
- Van Poppelen, P., 237
- Vani, R., 59
- Varo, I., 175
- Vasseur, P., 300
- Verheyen, E., 347
- Viant, M.R., 103
- Vranešić, B., 257
- Vrdoljak, A., 257
- Wang, X., 115
- Wang-Buhler, J.L., 207
- Watanabe, T., 187
- Watson, R.D., 330
- Westerfield, M., 207
- Willemze, R., 97
- Wu, J.-P., 383
- Yang, Y.H., 207
- Zamani, M.J., 251

